

# **WATER-SOLUBLE AGENT CONTAINING FAT-SOLUBLE VITAMIN**

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- European: **A61K8/39; A61K8/67; A61Q19/00**

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## **Abstract of JP 62000419 (A)**

**PURPOSE:**To obtain the titled water-soluble agent having extremely high stability and excellent safety and takable without feeling the taste and odor, by compounding a fat-soluble vitamin, a water-soluble polyhydric alcohol, a polyglycerol fatty acid ester, ethanol and water. **CONSTITUTION:**The objective water-soluble agent can be produced by compounding (A) preferably 0.5-30(wt)% fat-soluble vitamin (e.g. vitamin A, D, E, F, K, U, etc.), (B) preferably 2-95% water-soluble polyhydric alcohol having  $\geq 2$  OH groups in the molecule (e.g. ethylene glycol), (C) preferably 0.2-5pts. (based on 1pt. of the component A) of a polyglycerol fatty acid ester (preferably having a glycerol polymerization degree of 6-15), (D) preferably 0.5-20% ethanol and (E) preferably 0.1-5pts. (based on 1pt. of the component B) of water.

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